

Converting Colors

$Y_{xy}(20.7796, 0.6401, 0.3300)$

Have a look what the booklet for
Yxy(20.7796, 0.6401, 0.3300)
contains.

Yxy(20.6954, 0.6401, 0.3300)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(20.6954, 0.6401, 0.3300)

Conversions

Conversions Part 1

Format	Color
Hex	FC0000
RGB	252, 0, 0
RGB Percent	99%, 0%, 0%
CMY	0.0118, 0.9995, 1.0000
CMYK	0.00, 1.00, 1.00, 0.01
HSL	0°, 100%, 49%
HSV	0°, 100%, 99%
XYZ	40.1428, 20.6954, 1.8751
YIQ	75.3480, 150.1920, 53.4240

Conversions

Conversions Part 2

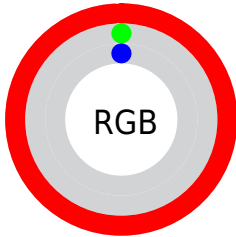
Format	Color
RYB	252, 0, 0
Decimal	16515072
CIELab	52.61, 79.39, 66.65
CIELCh	53, 103.658, 40.016
Yxy	20.6954, 0.6401, 0.3300
Android (android.graphics.Color)	4294705152 (0xFFFC0000)
YUV	75.3480, -37.1466, 154.9238
Hunter-Lab	45.4922, 77.8990, 29.4007

Details

The Yxy color **20.6954, 0.6401, 0.3300** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark saturated red. A complement of this color would be **76.5642, 0.2246, 0.3286**, and the grayscale version is **7.1645, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.9312, 0.5534, 0.3586**, and **10.1903, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **20.6970, 0.6400, 0.3300**, and if you desaturate by 10%, it is **21.4741, 0.6250, 0.3300**.

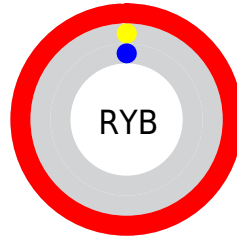
Distribution



Red (99%)

Green (0%)

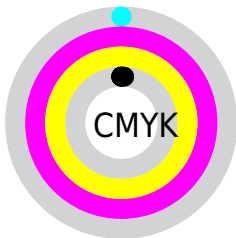
Blue (0%)



Red (99%)

Yellow (0%)

Blue (0%)

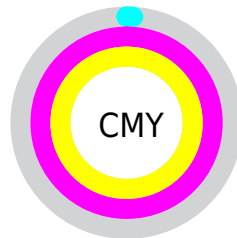


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (1%)



Cyan (1%)


Magenta (100%)

Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the Yxy color 20.6954, 0.6401, 0.3300 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 20.6954, 0.6401, 0.3300 by changing the saturation by 10% instead.


 20.6954, 0.6401,
0.3300


 20.6954, 0.6401,
0.3300

 255.6553, 0.4732,
0.3581


 12.9015, 0.6754,
0.3130


 44.5800, 0.5836,
0.3484

 7.3608, 0.7136,
0.2864


 61.4396, 0.5607,
0.3529

 3.6887, 0.7538,
0.2462

 82.0899, 0.5408,
0.3557

 1.5010, 0.8085,
0.1915

 106.9152, 0.5236,
0.3573

 0.2894, 0.9144,
0.0856

 136.3000, 0.5085,
0.3581


 0.0000, 1.0000,
0.0000


 170.6287, 0.4953,


 0.0000, 0.0000,


0.3584

0.0000


 210.2856, 0.4836,
0.3584

 20.6954, 0.6401,
0.3300


 20.6954, 0.6401,
0.3300


 20.6970, 0.6400,
0.3300

 21.4741, 0.6250,
0.3300

 23.2523, 0.5943,
0.3299

 26.3364, 0.5509,
0.3298

 30.9128, 0.5025,
0.3296

 37.1378, 0.4558,
0.3295

■ 45.1479, 0.4147,
0.3294

■ 55.0656, 0.3804,
0.3292

■ 67.0025, 0.3526,
0.3291

■ 81.0616, 0.3304,
0.3291

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



20.6954, 0.5818, 0.2515



20.6954, 0.6401, 0.3300



20.6954, 0.5717, 0.4283

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



20.6954, 0.6401, 0.3300



20.6954, 0.1726, 0.6020



20.6954, 0.1237, 0.1090

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



20.6954, 0.6401, 0.3300



76.5642, 0.2246, 0.3286

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



20.6954, 0.0786, 0.1212



20.6954, 0.6401, 0.3300



20.6954, 0.0910, 0.3409

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



20.6954, 0.6401, 0.3300



20.6954, 0.2985, 0.6756



20.6954, 0.0673, 0.1807



20.6954, 0.2234, 0.1277

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



20.6954, 0.6401, 0.3300



20.6954, 0.4872, 0.5128



20.6954, 0.0673, 0.1807



20.6954, 0.1040, 0.1094

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



20.6970, 0.6400, 0.3300



56.5501, 0.3805, 0.3292



27.7221, 0.3209, 0.1542



11.1316, 0.3941, 0.3293



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



20.6970, 0.6400, 0.3300



21.2628, 0.6400, 0.3300



35.6151, 0.5435, 0.4066



17.2266, 0.3294, 0.3291



10.7826, 0.6400, 0.3300



0.9991, 0.6399, 0.3301

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



76.5642, 0.2246, 0.3286



78.6574, 0.2246, 0.3286



21.9488, 0.1763, 0.1546



19.6070, 0.2980, 0.3289



39.8862, 0.2246, 0.3286



3.6946, 0.2246, 0.3286

Previews

White Background



This preview shows how the Yxy color 20.6954, 0.6401, 0.3300 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 20.6954, 0.6401, 0.3300

Background



This preview shows how black text looks on a background with the Yxy color 20.6954, 0.6401, 0.3300.



This preview shows how white text looks on a background with the Yxy color 20.6954, 0.6401, 0.3300.

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

20.6954, 0.6401, 0.3300

Protanopia

21.1282, 0.4281, 0.4713

Deuteranopia

21.1483, 0.4695, 0.4654



Tritanopia

20.9368, 0.6345, 0.3344

Trichromacy



Original Color

20.6954, 0.6401, 0.3300

Protanomaly

16.0063, 0.5484, 0.3883

Deuteranomaly

16.6452, 0.5704, 0.3853

Tritanomaly

20.8509, 0.6370, 0.3324

Monochromacy



Original Color

20.6954, 0.6401, 0.3300

Achromatopsia

7.0360, 0.3127, 0.3290

Achromatomaly

7.8163, 0.5161, 0.3296

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.6954, 0.6401, 0.3300 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(252, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(252, 0, 0)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(252, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(252, 0, 0) }
```

Border

The CSS property to change the border of an element to Yxy 20.6954, 0.6401, 0.3300 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(252, 0, 0) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(252, 0, 0) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(252, 0, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(252, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(252, 0, 0); box-shadow:4px  
4px 4px 4px rgb(252, 0, 0) }
```


Background

The CSS property to change the background color of an element to Yxy 20.6954, 0.6401, 0.3300 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(252, 0, 0) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(252, 0,  
0) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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